



# CALIFORNIA

## Agricultural Bulletin

**EDD** Employment  
Development  
Department  
State of California

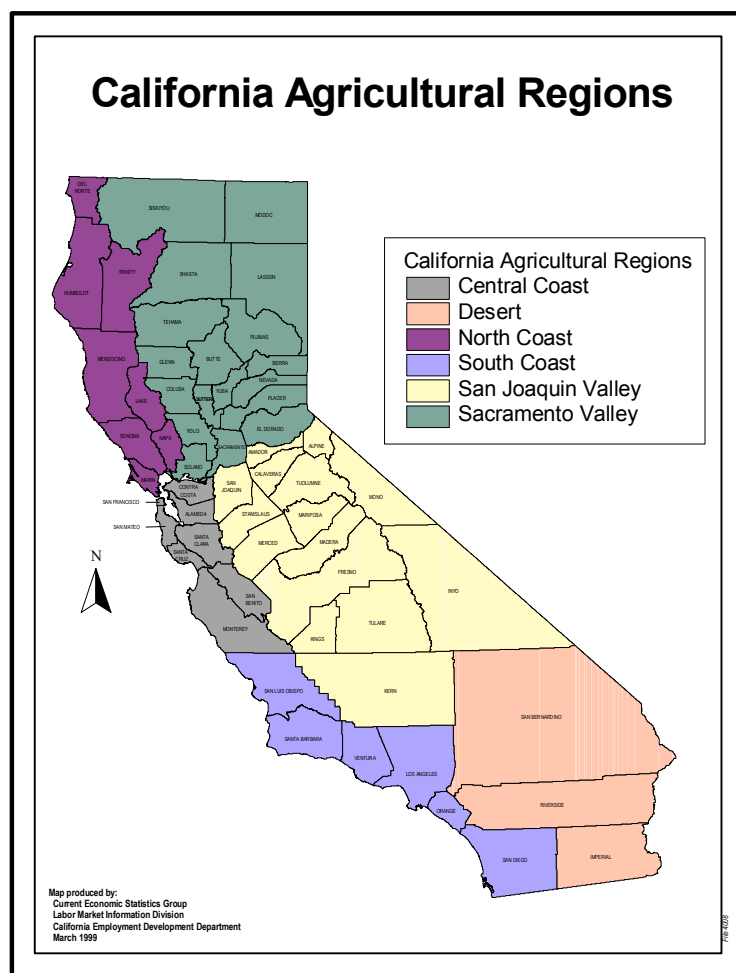
**March 2003**  
(Internet Version)

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### Agricultural Overview

This bulletin covers 27 agricultural industries in the State of California. The number of industries ranges from 5 to 17 within each of the 6 geographic regions. The regions are the San Joaquin Valley, South Coast, Desert, Central Coast, Sacramento Valley, and North Coast (refer to map for details).



The data are organized into the following tables by state and region:

- Wage and Salary Workers
- Average Hourly Earnings

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## Summary

### Employment

Total Agricultural Crop and Service Production from February 2003 to March 2003 increased by 12,500, driven by the increase of 6,300 jobs in Agricultural Crop Production. The prime mover in Agricultural Crop Production was Vegetables and Melons, which increased by 5,200 jobs. The majority of the increases were in the Central Coast and San Joaquin Valley Regions. Another significant increase of 3,300 was seen in Berry Crops in the South Coast Region. Increases in both Agricultural Production and Agricultural Services from February to March are normal. In the breakdown of the regions, Central Coast increased by 19.4 percent or 6,600 jobs. However, San Joaquin Valley dropped 4.8 percent or 6,600 jobs.

Total Agricultural Wages showed an increase of two cents from February 2003 to March 2003. Both Agricultural Livestock Production and Total Agricultural Services had increases of three cents, while Agricultural Crop Production remained unchanged.

### Production and Crop Activity

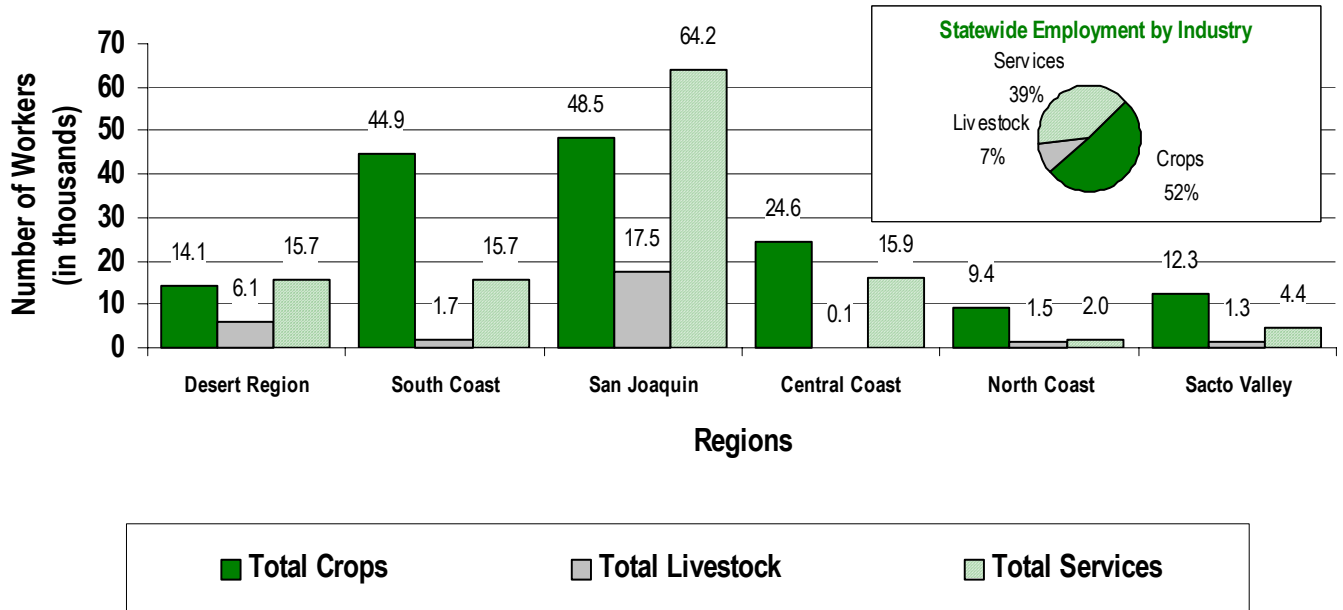
Pre-plant irrigation, cultivation, and application of insecticides and herbicides continued in many corn and cotton fields. Cotton planting began in a few fields. Cutting and windrowing of alfalfa hay continued in mature fields. A few alfalfa fields were treated for weevils. Many small grain fields were irrigated and treated for weed control. Wheat, oat, and barley fields were irrigated and fertilized. Harvesting of small grain crops for silage was underway in some areas. Applications of rodent bait continued in sugar beet fields. Several rice stubble fields were still being drained and burned. Pre-plant herbicide treatments were made to several rice fields. Although tomato planting continued, most growers were utilizing transplants. Planting honeydew melons, watermelons, and peppers continued. Protective hot caps and row covers were placed on many recently planted fields of eggplant, tomatoes, peppers, and other summer vegetables. Early squash varieties were pushing through their hot caps. Sweet potato and safflower planting was underway. Broccoli, asparagus, and lettuce harvesting continued in the San Joaquin Valley. Artichoke harvesting got underway. The following vegetables were also harvested during the month of March: cauliflower, cabbage, carrots, celery, cilantro, green onions, mustard greens, parsley, radishes, radicchio, and spinach.

Seasonal cultural activities including weed control, cultivation and irrigation continued in orchards and vineyards. Freeze damage to bloom from cold temperatures was reported in early stone fruit varieties. Periodic rainfall made repeated fungicide applications a necessity. New orchards and vineyards were planted where older plantings had been removed. Bloom sprays were applied to deciduous trees to prevent fungal diseases. Grape growers irrigated, mowed cover crops, cultivated, and applied herbicide applications in vineyards. Pruning, tying, pesticide spraying, and brush shredding continued in grape vineyards. Weed control activity increased in citrus groves, and foliage applications of pesticides were applied. Navel oranges, lemons, tangerines, mandarins, pummelos, and grapefruit were picked and packed. Grapefruit picking was ongoing in the desert and in the San Joaquin Valley. Lemon harvesting was essentially finished in the Coachella Valley and was winding down in the other desert areas. Nut growers performed seasonal cultural activities such as pruning, irrigating and spraying trees. Some older almond trees were removed. Brush removal and shredding continued.

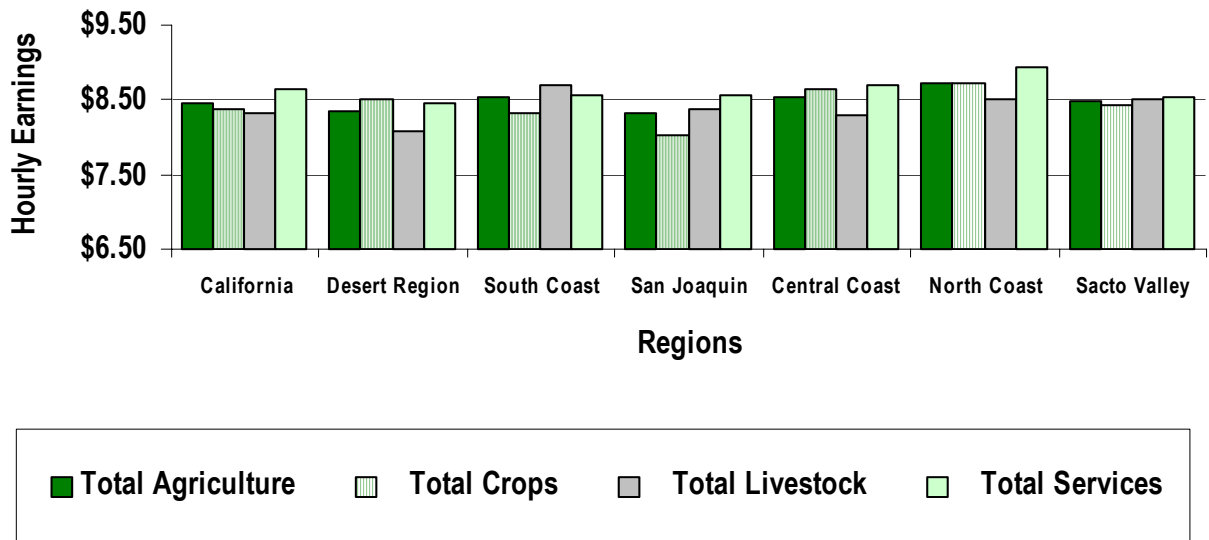
Sheep grazed in a few alfalfa fields in the Central Valley. Lambs on alfalfa pastures in the southern California desert were shipped to slaughter or to other areas for further feeding. Cows were beginning to calve. Bees were active in stone fruit orchards. Some bees were being moved out of almond orchards and placed in orange groves in the Central Valley.

# Agricultural Summary Charts

## Wage and Salary Workers



## Average Hourly Earnings



# CALIFORNIA AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>299.9</b>	<b>287.4</b>	<b>304.3</b>
<b>Total Agricultural Production/Crops</b>	<b>153.8</b>	<b>147.5</b>	<b>158.0</b>
Cash Grains	2.3	1.6	2.2
Rice	1.2	1.1	1.2
Other Cash Grains	1.1	0.5	1.0
Field Crops Except Grains	8.8	7.2	9.0
Cotton	4.2	3.6	4.4
Other Field Crops	4.6	3.6	4.6
Vegetables and Melons	26.1	20.9	27.7
Total Fruits and Tree Nuts	61.8	65.8	65.1
Berries	15.8	12.4	16.6
Grapes	27.3	31.7	26.9
Tree Nuts	6.6	7.0	6.9
Citrus Fruits	2.4	2.7	3.4
Deciduous Tree Fruit	5.0	5.9	5.5
Other Fruits & Nuts	4.7	6.1	5.8
Total Horticultural Specialties	36.7	34.5	35.8
Ornamental Floral & Nursery	33.4	31.5	32.2
Food Crops Grown Under Cover	3.3	3.0	3.6
General Farm Primarily Crop	18.1	17.5	18.2
<b>Agricultural Production/Livestock</b>	<b>28.2</b>	<b>26.7</b>	<b>29.4</b>
Beef Cattle Feed Lots	0.8	0.8	0.9
Beef Cattle Except Feed Lots	3.0	2.8	3.6
Dairy Farms	17.3	16.3	17.2
Chicken Eggs	2.0	1.9	2.1
Turkey & Turkey Eggs	0.7	0.7	0.9
Other Livestock	4.4	4.2	4.7
<b>Total Agricultural Services</b>	<b>117.9</b>	<b>113.2</b>	<b>116.9</b>
Soil Preparation Services	1.5	1.5	1.6
Crop Services	32.6	31.1	33.8
Plant Cultivate & Protection	4.4	4.1	4.8
Harvest Primarily by Machine	2.9	2.5	3.5
Preparation Services for Market	24.5	23.7	24.7
Cotton Ginning	0.8	0.8	0.8
Total Farm Labor & Management	83.8	80.6	81.5
Farm Labor Contractors	74.5	71.8	72.1
Farm Management Services	9.3	8.8	9.4

## Average Hourly Earnings (In dollars per hour)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>8.45</b>	<b>8.43</b>	<b>8.37</b>
<b>Total Agricultural Production/Crops</b>	<b>8.37</b>	<b>8.37</b>	<b>8.31</b>
Cash Grains	8.49	8.47	8.39
Rice	8.65	8.72	8.53
Other Cash Grains	8.33	8.22	8.25
Field Crops Except Grains	8.25	8.26	8.41
Cotton	8.16	8.17	8.38
Other Field Crops	8.34	8.34	8.44
Vegetables and Melons	8.42	8.43	8.45
Total Fruits and Tree Nuts	8.38	8.34	8.22
Berries	8.04	8.04	8.04
Grapes	8.43	8.46	8.36
Tree Nuts	8.58	8.49	7.97
Citrus Fruits	8.38	8.38	8.41
Deciduous Tree Fruit	8.34	8.25	8.08
Other Fruits & Nuts	8.50	8.45	8.46
Total Horticultural Specialties	8.39	8.39	8.25
Ornamental Floral & Nursery	8.54	8.54	8.44
Food Crops Grown Under Cover	8.25	8.25	8.06
General Farm Primarily Crop	8.29	8.31	8.18
<b>Agricultural Production/Livestock</b>	<b>8.32</b>	<b>8.29</b>	<b>8.20</b>
Beef Cattle Feed Lots	8.04	8.01	8.14
Beef Cattle Except Feed Lots	8.57	8.59	8.32
Dairy Farms	8.69	8.68	8.55
Chicken Eggs	7.92	7.78	7.84
Turkey & Turkey Eggs	8.21	8.19	7.92
Other Livestock	8.50	8.51	8.45
<b>Total Agricultural Services</b>	<b>8.66</b>	<b>8.63</b>	<b>8.59</b>
Soil Preparation Services	8.74	8.67	8.69
Crop Services	8.78	8.78	8.74
Plant Cultivate & Protection	8.67	8.69	8.72
Harvest Primarily by Machine	8.77	8.77	8.74
Preparation Services for Market	8.33	8.33	8.32
Cotton Ginning	9.35	9.32	9.17
Total Farm Labor & Management	8.45	8.45	8.35
Farm Labor Contractors	8.25	8.26	8.13
Farm Management Services	8.64	8.65	8.57

# CENTRAL COAST AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>40.6</b>	<b>34.0</b>	<b>43.4</b>
<b>Total Agricultural Production/Crops</b>	<b>24.6</b>	<b>21.9</b>	<b>26.4</b>
Cash Grains	0.0	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.0
Field Crops Except Grains	0.0	0.0	0.3
Cotton	0.0	0.0	0.0
Other Field Crops	0.0	0.0	0.3
Vegetables and Melons	9.6	7.5	10.9
Total Fruits and Tree Nuts	4.2	4.0	4.6
Berries	2.7	2.4	2.6
Grapes	1.5	1.5	1.2
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.0	0.1	0.2
Other Fruits & Nuts	0.0	0.0	0.5
Total Horticultural Specialties	9.5	9.1	9.3
Ornamental Floral & Nursery	7.3	7.0	7.2
Food Crops Grown Under Cover	2.2	2.1	2.1
General Farm Primarily Crop	1.3	1.3	1.3
<b>Agricultural Production/Livestock</b>	<b>0.1</b>	<b>0.0</b>	<b>1.0</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.0	0.0	0.3
Dairy Farms	0.0	0.0	0.1
Chicken Eggs	0.1	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.0	0.0	0.4
<b>Total Agricultural Services</b>	<b>15.9</b>	<b>12.1</b>	<b>16.0</b>
Soil Preparation Services	0.7	0.4	0.7
Crop Services	5.5	4.4	5.8
Plant Cultivate & Protection	0.7	0.0	0.8
Harvest Primarily by Machine	0.7	0.6	0.8
Preparation Services for Market	4.1	3.8	4.2
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	9.7	7.3	9.5
Farm Labor Contractors	8.7	6.1	8.6
Farm Management Services	1.0	1.2	0.9

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>8.54</b>	<b>8.67</b>	<b>8.42</b>
<b>Total Agricultural Production/Crops</b>	<b>8.63</b>	<b>8.62</b>	<b>8.46</b>
Cash Grains	na	na	na
Rice	na	na	na
Other Cash Grains	na	na	na
Field Crops Except Grains	na	na	8.53
Cotton	na	na	na
Other Field Crops	na	na	8.53
Vegetables and Melons	9.11	9.10	8.72
Total Fruits and Tree Nuts	8.53	8.45	8.35
Berries	8.50	8.63	8.64
Grapes	8.56	8.81	8.35
Tree Nuts	na	na	7.97
Citrus Fruits	na	na	na
Deciduous Tree Fruit	na	7.90	8.12
Other Fruits & Nuts	na	na	8.66
Total Horticultural Specialties	8.54	8.55	8.50
Ornamental Floral & Nursery	8.55	8.56	8.52
Food Crops Grown Under Cover	8.53	8.54	8.47
General Farm Primarily Crop	8.34	8.39	8.20
<b>Agricultural Production/Livestock</b>	<b>8.29</b>	<b>na</b>	<b>8.11</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	na	na	8.33
Dairy Farms	na	na	8.49
Chicken Eggs	8.29	na	7.84
Turkey & Turkey Eggs	na	na	7.92
Other Livestock	na	na	7.95
<b>Total Agricultural Services</b>	<b>8.69</b>	<b>8.71</b>	<b>8.68</b>
Soil Preparation Services	8.79	8.79	8.85
Crop Services	8.74	8.81	8.69
Plant Cultivate & Protection	8.60	na	8.67
Harvest Primarily by Machine	9.15	9.15	8.91
Preparation Services for Market	8.46	8.47	8.50
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.54	8.54	8.51
Farm Labor Contractors	8.30	8.31	8.20
Farm Management Services	8.77	8.77	8.81

# DESERT AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>35.9</b>	<b>29.6</b>	<b>36.3</b>
<b>Total Agricultural Production/Crops</b>	<b>14.1</b>	<b>11.7</b>	<b>14.5</b>
Cash Grains	0.2	0.1	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.2	0.1	0.1
Field Crops Except Grains	1.7	1.6	1.1
Cotton	0.0	0.0	0.0
Other Field Crops	1.7	1.6	1.1
Vegetables and Melons	3.7	3.4	3.9
Total Fruits and Tree Nuts	4.2	2.2	5.1
Berries	0.0	0.0	0.2
Grapes	3.3	1.2	3.3
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.0	0.0	0.6
Deciduous Tree Fruit	0.0	0.0	0.1
Other Fruits & Nuts	0.9	1.0	0.8
Total Horticultural Specialties	1.7	1.6	1.6
Ornamental Floral & Nursery	1.7	1.6	1.5
Food Crops Grown Under Cover	0.0	0.0	0.1
General Farm Primarily Crop	2.6	2.8	2.7
<b>Agricultural Production/Livestock</b>	<b>6.1</b>	<b>5.8</b>	<b>5.7</b>
Beef Cattle Feed Lots	0.3	0.3	0.2
Beef Cattle Except Feed Lots	0.7	0.6	0.6
Dairy Farms	3.3	3.1	3.2
Chicken Eggs	1.2	1.2	1.1
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.6	0.6	0.6
<b>Total Agricultural Services</b>	<b>15.7</b>	<b>12.1</b>	<b>16.1</b>
Soil Preparation Services	0.0	0.1	0.1
Crop Services	4.3	3.3	4.3
Plant Cultivate & Protection	0.2	0.3	0.3
Harvest Primarily by Machine	0.8	0.7	0.9
Preparation Services for Market	3.1	2.1	2.9
Cotton Ginning	0.2	0.2	0.2
Total Farm Labor & Management	11.4	8.7	11.7
Farm Labor Contractors	10.0	8.0	10.0
Farm Management Services	1.4	0.7	1.7

## Average Hourly Earnings (In dollars per hour)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>8.36</b>	<b>8.37</b>	<b>8.23</b>
<b>Total Agricultural Production/Crops</b>	<b>8.52</b>	<b>8.53</b>	<b>8.12</b>
Cash Grains	8.65	8.63	8.25
Rice	na	na	na
Other Cash Grains	8.65	8.63	8.25
Field Crops Except Grains	8.88	8.91	8.38
Cotton	na	na	na
Other Field Crops	8.88	8.91	8.38
Vegetables and Melons	8.34	8.36	8.27
Total Fruits and Tree Nuts	8.62	8.64	8.02
Berries	na	na	8.04
Grapes	8.64	8.65	7.90
Tree Nuts	na	na	7.74
Citrus Fruits	na	na	8.29
Deciduous Tree Fruit	na	na	7.61
Other Fruits & Nuts	8.60	8.62	8.55
Total Horticultural Specialties	8.38	8.38	7.88
Ornamental Floral & Nursery	8.38	8.38	8.12
Food Crops Grown Under Cover	na	na	7.63
General Farm Primarily Crop	8.25	8.24	7.90
<b>Agricultural Production/Livestock</b>	<b>8.09</b>	<b>8.09</b>	<b>8.10</b>
Beef Cattle Feed Lots	7.92	7.91	8.15
Beef Cattle Except Feed Lots	8.28	8.30	8.25
Dairy Farms	8.48	8.49	8.64
Chicken Eggs	7.61	7.62	7.34
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.14	8.14	8.11
<b>Total Agricultural Services</b>	<b>8.46</b>	<b>8.50</b>	<b>8.49</b>
Soil Preparation Services	na	8.58	8.70
Crop Services	8.63	8.63	8.51
Plant Cultivate & Protection	8.53	8.54	8.42
Harvest Primarily by Machine	8.98	8.99	8.88
Preparation Services for Market	8.11	8.13	8.10
Cotton Ginning	8.89	8.86	8.65
Total Farm Labor & Management	8.30	8.29	8.25
Farm Labor Contractors	8.14	8.12	8.14
Farm Management Services	8.46	8.46	8.36

na = not available

# NORTH COAST AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>12.9</b>	<b>12.7</b>	<b>13.8</b>
<b>Total Agricultural Production/Crops</b>	<b>9.4</b>	<b>8.8</b>	<b>9.7</b>
Cash Grains	0.1	0.0	0.0
Rice	0.0	0.0	0.0
Other Cash Grains	0.1	0.0	0.0
Field Crops Except Grains	0.0	0.0	0.1
Cotton	0.0	0.0	0.0
Other Field Crops	0.0	0.0	0.1
Vegetables and Melons	0.0	0.0	0.1
Total Fruits and Tree Nuts	7.9	7.4	8.0
Berries	0.0	0.0	0.0
Grapes	7.1	6.7	7.0
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	0.8	0.7	0.8
Other Fruits & Nuts	0.0	0.0	0.1
Total Horticultural Specialties	1.4	1.3	1.3
Ornamental Floral & Nursery	1.4	1.3	1.1
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	0.0	0.1	0.2
<b>Agricultural Production/Livestock</b>	<b>1.5</b>	<b>1.5</b>	<b>1.7</b>
Beef Cattle Feed Lots	0.0	0.0	0.1
Beef Cattle Except Feed Lots	0.2	0.2	0.2
Dairy Farms	1.1	0.9	0.9
Chicken Eggs	0.0	0.0	0.1
Turkey & Turkey Eggs	0.0	0.0	0.1
Other Livestock	0.2	0.4	0.3
<b>Total Agricultural Services</b>	<b>2.0</b>	<b>2.4</b>	<b>2.4</b>
Soil Preparation Services	0.0	0.1	0.1
Crop Services	0.0	0.0	0.2
Plant Cultivate & Protection	0.0	0.0	0.1
Harvest Primarily by Machine	0.0	0.0	0.0
Preparation Services for Market	0.0	0.0	0.1
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	2.0	2.3	2.1
Farm Labor Contractors	0.2	0.2	0.3
Farm Management Services	1.8	2.1	1.8

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>8.72</b>	<b>8.69</b>	<b>8.48</b>
<b>Total Agricultural Production/Crops</b>	<b>8.72</b>	<b>8.62</b>	<b>8.51</b>
Cash Grains	8.62	na	na
Rice	na	na	na
Other Cash Grains	8.62	na	na
Field Crops Except Grains	na	na	8.44
Cotton	na	na	na
Other Field Crops	na	na	8.44
Vegetables and Melons	na	na	8.70
Total Fruits and Tree Nuts	8.62	8.62	8.47
Berries	na	na	na
Grapes	8.56	8.55	8.60
Tree Nuts	na	na	7.97
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.67	8.68	8.68
Other Fruits & Nuts	na	na	8.64
Total Horticultural Specialties	8.91	8.92	8.38
Ornamental Floral & Nursery	8.91	8.92	8.69
Food Crops Grown Under Cover	na	na	8.06
General Farm Primarily Crop	na	8.31	8.54
<b>Agricultural Production/Livestock</b>	<b>8.51</b>	<b>8.51</b>	<b>8.39</b>
Beef Cattle Feed Lots	na	na	8.15
Beef Cattle Except Feed Lots	8.33	8.34	8.33
Dairy Farms	8.53	8.52	8.37
Chicken Eggs	na	na	8.50
Turkey & Turkey Eggs	na	na	7.92
Other Livestock	8.66	8.66	9.06
<b>Total Agricultural Services</b>	<b>8.95</b>	<b>8.95</b>	<b>8.56</b>
Soil Preparation Services	na	8.61	8.69
Crop Services	na	na	8.55
Plant Cultivate & Protection	na	na	8.73
Harvest Primarily by Machine	na	na	na
Preparation Services for Market	na	na	8.37
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.78	8.78	8.44
Farm Labor Contractors	8.63	8.63	8.13
Farm Management Services	8.93	8.93	8.75

# SOUTH COAST AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>62.3</b>	<b>56.3</b>	<b>63.2</b>
<b>Total Agricultural Production/Crops</b>	<b>44.9</b>	<b>40.5</b>	<b>46.0</b>
Cash Grains	0.0	0.0	0.1
Rice	0.0	0.0	0.0
Other Cash Grains	0.0	0.0	0.1
Field Crops Except Grains	0.2	0.0	0.4
Cotton	0.0	0.0	0.0
Other Field Crops	0.2	0.0	0.4
Vegetables and Melons	6.4	5.8	6.3
Total Fruits and Tree Nuts	17.5	14.7	18.8
Berries	13.1	9.8	13.8
Grapes	1.8	2.0	1.6
Tree Nuts	0.0	0.0	0.1
Citrus Fruits	1.2	1.3	1.4
Deciduous Tree Fruit	0.0	0.1	0.2
Other Fruits & Nuts	1.4	1.5	1.7
Total Horticultural Specialties	17.8	17.1	17.3
Ornamental Floral & Nursery	16.8	16.3	16.5
Food Crops Grown Under Cover	1.0	0.8	0.8
General Farm Primarily Crop	3.0	2.9	3.1
<b>Agricultural Production/Livestock</b>	<b>1.7</b>	<b>1.7</b>	<b>1.7</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.3	0.3	0.3
Dairy Farms	0.1	0.1	0.2
Chicken Eggs	0.4	0.4	0.3
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.9	0.9	0.9
<b>Total Agricultural Services</b>	<b>15.7</b>	<b>14.1</b>	<b>15.5</b>
Soil Preparation Services	0.3	0.2	0.1
Crop Services	2.4	2.3	2.5
Plant Cultivate & Protection	0.5	0.4	0.5
Harvest Primarily by Machine	0.0	0.0	0.1
Preparation Services for Market	1.9	1.9	1.9
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	13.0	11.6	12.9
Farm Labor Contractors	11.6	10.3	11.5
Farm Management Services	1.4	1.3	1.4

## Average Hourly Earnings (In dollars per hour)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>8.53</b>	<b>8.52</b>	<b>8.41</b>
<b>Total Agricultural Production/Crops</b>	<b>8.33</b>	<b>8.32</b>	<b>8.35</b>
Cash Grains	na	na	8.63
Rice	na	na	na
Other Cash Grains	na	na	8.63
Field Crops Except Grains	8.37	na	8.58
Cotton	na	na	na
Other Field Crops	8.37	na	8.58
Vegetables and Melons	8.19	8.14	8.44
Total Fruits and Tree Nuts	8.29	8.31	8.19
Berries	7.58	7.45	7.43
Grapes	8.43	8.48	8.61
Tree Nuts	na	na	7.97
Citrus Fruits	8.46	8.46	8.53
Deciduous Tree Fruit	na	8.43	7.98
Other Fruits & Nuts	8.69	8.71	8.63
Total Horticultural Specialties	8.46	8.47	8.26
Ornamental Floral & Nursery	8.55	8.56	8.51
Food Crops Grown Under Cover	8.37	8.37	8.00
General Farm Primarily Crop	8.35	8.36	8.01
<b>Agricultural Production/Livestock</b>	<b>8.70</b>	<b>8.71</b>	<b>8.32</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	9.43	9.51	8.58
Dairy Farms	8.68	8.67	8.55
Chicken Eggs	8.15	8.11	7.87
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.54	8.53	8.28
<b>Total Agricultural Services</b>	<b>8.56</b>	<b>8.53</b>	<b>8.56</b>
Soil Preparation Services	8.79	8.72	8.69
Crop Services	8.58	8.58	8.61
Plant Cultivate & Protection	8.86	8.86	8.93
Harvest Primarily by Machine	na	na	8.74
Preparation Services for Market	8.30	8.30	8.16
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.30	8.30	8.38
Farm Labor Contractors	8.02	8.01	8.15
Farm Management Services	8.58	8.58	8.61

na = not available



# SAN JOAQUIN AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>130.2</b>	<b>136.8</b>	<b>129.4</b>
<b>Total Agricultural Production/Crops</b>	<b>48.5</b>	<b>52.6</b>	<b>49.2</b>
Cash Grains	0.5	0.1	0.6
Rice	0.0	0.0	0.1
Other Cash Grains	0.5	0.1	0.5
Field Crops Except Grains	6.4	5.1	6.7
Cotton	4.2	3.6	4.4
Other Field Crops	2.2	1.5	2.3
Vegetables and Melons	5.4	3.5	5.6
Total Fruits and Tree Nuts	22.7	31.3	23.1
Berries	0.0	0.1	0.0
Grapes	12.3	19.1	12.7
Tree Nuts	4.3	4.6	4.3
Citrus Fruits	1.2	1.4	1.4
Deciduous Tree Fruit	2.5	3.3	2.6
Other Fruits & Nuts	2.4	2.8	2.1
Total Horticultural Specialties	4.6	4.0	4.4
Ornamental Floral & Nursery	4.5	3.9	4.2
Food Crops Grown Under Cover	0.1	0.1	0.2
General Farm Primarily Crop	8.9	8.6	8.8
<b>Agricultural Production/Livestock</b>	<b>17.5</b>	<b>16.3</b>	<b>17.8</b>
Beef Cattle Feed Lots	0.5	0.5	0.6
Beef Cattle Except Feed Lots	1.3	1.2	1.7
Dairy Farms	12.3	11.7	12.3
Chicken Eggs	0.3	0.3	0.5
Turkey & Turkey Eggs	0.7	0.7	0.7
Other Livestock	2.4	1.9	2.0
<b>Total Agricultural Services</b>	<b>64.2</b>	<b>67.9</b>	<b>62.4</b>
Soil Preparation Services	0.5	0.5	0.5
Crop Services	18.7	19.2	19.2
Plant Cultivate & Protection	2.7	3.0	2.7
Harvest Primarily by Machine	1.3	1.0	1.5
Preparation Services for Market	14.1	14.6	14.4
Cotton Ginning	0.6	0.6	0.6
Total Farm Labor & Management	45.0	48.2	42.7
Farm Labor Contractors	41.5	44.8	39.2
Farm Management Services	3.5	3.4	3.5

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>8.32</b>	<b>8.33</b>	<b>8.32</b>
<b>Total Agricultural Production/Crops</b>	<b>8.03</b>	<b>8.04</b>	<b>8.21</b>
Cash Grains	7.75	7.75	8.21
Rice	na	na	8.57
Other Cash Grains	7.75	7.75	7.84
Field Crops Except Grains	8.02	8.04	8.42
Cotton	8.16	8.17	8.38
Other Field Crops	7.88	7.91	8.46
Vegetables and Melons	7.91	7.99	8.10
Total Fruits and Tree Nuts	8.29	8.28	8.16
Berries	na	8.20	na
Grapes	7.99	8.03	8.36
Tree Nuts	8.71	8.68	8.03
Citrus Fruits	8.30	8.29	8.42
Deciduous Tree Fruit	8.22	8.19	7.99
Other Fruits & Nuts	8.22	8.26	7.98
Total Horticultural Specialties	8.08	8.07	8.31
Ornamental Floral & Nursery	8.31	8.30	8.47
Food Crops Grown Under Cover	7.84	7.84	8.14
General Farm Primarily Crop	8.11	8.12	8.09
<b>Agricultural Production/Livestock</b>	<b>8.36</b>	<b>8.36</b>	<b>8.25</b>
Beef Cattle Feed Lots	8.15	8.10	8.11
Beef Cattle Except Feed Lots	8.41	8.40	8.17
Dairy Farms	9.05	9.04	8.81
Chicken Eggs	7.61	7.60	7.63
Turkey & Turkey Eggs	8.21	8.19	7.92
Other Livestock	8.74	8.83	8.88
<b>Total Agricultural Services</b>	<b>8.57</b>	<b>8.58</b>	<b>8.51</b>
Soil Preparation Services	8.64	8.63	8.52
Crop Services	8.80	8.79	8.88
Plant Cultivate & Protection	8.69	8.70	8.86
Harvest Primarily by Machine	8.31	8.31	8.47
Preparation Services for Market	8.38	8.39	8.49
Cotton Ginning	9.81	9.77	9.68
Total Farm Labor & Management	8.26	8.32	8.13
Farm Labor Contractors	8.01	8.11	7.92
Farm Management Services	8.51	8.52	8.34

# SACRAMENTO VALLEY AGRICULTURAL EMPLOYMENT

## Wage and Salary Workers (In Thousands)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>18.0</b>	<b>18.0</b>	<b>18.2</b>
<b>Total Agricultural Production/Crops</b>	<b>12.3</b>	<b>12.0</b>	<b>12.2</b>
Cash Grains	1.5	1.4	1.4
Rice	1.2	1.1	1.1
Other Cash Grains	0.3	0.3	0.3
Field Crops Except Grains	0.5	0.5	0.4
Cotton	0.0	0.0	0.0
Other Field Crops	0.5	0.5	0.4
Vegetables and Melons	1.0	0.7	0.9
Total Fruits and Tree Nuts	5.3	6.2	5.5
Berries	0.0	0.1	0.0
Grapes	1.3	1.2	1.1
Tree Nuts	2.3	2.4	2.2
Citrus Fruits	0.0	0.0	0.0
Deciduous Tree Fruit	1.7	1.7	1.6
Other Fruits & Nuts	0.0	0.8	0.6
Total Horticultural Specialties	1.7	1.4	1.9
Ornamental Floral & Nursery	1.7	1.4	1.7
Food Crops Grown Under Cover	0.0	0.0	0.2
General Farm Primarily Crop	2.3	1.8	2.1
<b>Agricultural Production/Livestock</b>	<b>1.3</b>	<b>1.4</b>	<b>1.5</b>
Beef Cattle Feed Lots	0.0	0.0	0.0
Beef Cattle Except Feed Lots	0.5	0.5	0.5
Dairy Farms	0.5	0.5	0.5
Chicken Eggs	0.0	0.0	0.0
Turkey & Turkey Eggs	0.0	0.0	0.0
Other Livestock	0.3	0.4	0.5
<b>Total Agricultural Services</b>	<b>4.4</b>	<b>4.6</b>	<b>4.5</b>
Soil Preparation Services	0.0	0.2	0.1
Crop Services	1.7	1.9	1.8
Plant Cultivate & Protection	0.3	0.4	0.4
Harvest Primarily by Machine	0.1	0.2	0.2
Preparation Services for Market	1.3	1.3	1.2
Cotton Ginning	0.0	0.0	0.0
Total Farm Labor & Management	2.7	2.5	2.6
Farm Labor Contractors	2.5	2.4	2.5
Farm Management Services	0.2	0.1	0.1

na = not available

## Average Hourly Earnings (In dollars per hour)

Industry	Mar 2003	Feb 2003	Mar 2002
<b>Total Agriculture</b>	<b>8.49</b>	<b>8.49</b>	<b>8.40</b>
<b>Total Agricultural Production/Crops</b>	<b>8.42</b>	<b>8.39</b>	<b>8.30</b>
Cash Grains	8.47	8.50	8.38
Rice	8.65	8.72	8.48
Other Cash Grains	8.29	8.28	8.27
Field Crops Except Grains	8.24	8.20	8.26
Cotton	na	na	na
Other Field Crops	8.24	8.20	8.26
Vegetables and Melons	8.53	8.55	8.44
Total Fruits and Tree Nuts	8.32	8.14	8.22
Berries	na	7.88	na
Grapes	8.37	8.26	8.36
Tree Nuts	8.45	8.30	8.15
Citrus Fruits	na	na	na
Deciduous Tree Fruit	8.13	8.07	8.08
Other Fruits & Nuts	na	8.20	8.27
Total Horticultural Specialties	8.53	8.50	8.18
Ornamental Floral & Nursery	8.53	8.50	8.30
Food Crops Grown Under Cover	na	na	8.06
General Farm Primarily Crop	8.42	8.43	8.33
<b>Agricultural Production/Livestock</b>	<b>8.51</b>	<b>8.50</b>	<b>8.36</b>
Beef Cattle Feed Lots	na	na	na
Beef Cattle Except Feed Lots	8.40	8.40	8.24
Dairy Farms	8.72	8.70	8.45
Chicken Eggs	na	na	na
Turkey & Turkey Eggs	na	na	na
Other Livestock	8.41	8.39	8.40
<b>Total Agricultural Services</b>	<b>8.54</b>	<b>8.58</b>	<b>8.54</b>
Soil Preparation Services	na	8.69	8.66
Crop Services	8.57	8.56	8.57
Plant Cultivate & Protection	8.69	8.67	8.71
Harvest Primarily by Machine	8.63	8.63	8.69
Preparation Services for Market	8.39	8.38	8.32
Cotton Ginning	na	na	na
Total Farm Labor & Management	8.51	8.50	8.40
Farm Labor Contractors	8.40	8.37	8.22
Farm Management Services	8.61	8.62	8.57

## DATA NOTES

### Data Sources:

These data are obtained from two sources: the Employment Development Department (EDD) Covered Employment and Wages (ES-202) data files and a monthly survey conducted by the California Agricultural Statistical Service (CASS) of the U.S. Department of Agriculture (USDA) and the Labor Market Information Division of EDD of 4,200 agricultural employers. The sample was selected to be representative of the State's agricultural employers by size, geographic location, and industry categories. Sample data are gathered for the survey week that includes the 12<sup>th</sup> calendar day of the month. All data in this bulletin represent activities taking place during this mid-month period. Same month prior year employment data are benchmarked to the ES-202 data files maintained by EDD.

### Data Comments:

To aid in accurate usage and interpretation of the data, please note the following:

- **Agricultural Services employment survey data may be recalculated; historical trend information is used to adjust sample data when low response rates occur.**
- Regional data may show greater variability than statewide data because of small sample size and variable reporting patterns in specific industries.
- Current month regional estimates are based on the recorded addresses of owner-operators. Same month prior year regional data are based on worksite locations. Significant differences between regional current month and same month prior year data could result, although statewide totals might be comparable.
- Where data cannot be estimated because of inadequate sample reporting, the letters "na" have been entered into the field to indicate estimates are not available.
- Wage data include wages of supervisors and hired non-production workers (primarily administrative personnel). Piece rate data are also included where applicable.
- Fishing, forestry, and hunting industry data are not included in the Agricultural Services estimates. Unique seasonal industry patterns of employment make producing employment estimates for these industries problematic.
- Employment data do not include employers of unpaid family workers.
- Agricultural workers who are employed by farm labor contractors are reported in Agricultural Services under that industry category. Employment levels in Crop Production and Livestock Production do not reflect their activities in the associated industries that contract with the farm labor contractors.

Total agricultural employment and hourly earnings estimates in this bulletin are derived from the monthly Current Employment Statistics for Agriculture project. Estimates in this bulletin will differ from other agricultural estimates published by EDD and the USDA because of differences in the number of industries covered and in the definition of agricultural workers.

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